

Name : \_\_\_\_\_

Score : \_\_\_\_\_

Teacher : \_\_\_\_\_

Date : \_\_\_\_\_

## **Adding and Subtracting Radical Expressions**

**Simplify the Radical Expressions.**

1)  $-\sqrt{2} - \sqrt{2}$

6)  $7\sqrt{44} - 9\sqrt{44}$

2)  $-5\sqrt{6} - 9\sqrt{6} - 6\sqrt{6}$

7)  $-\sqrt{176} - \sqrt{32} - \sqrt{99}$

3)  $\sqrt{96} + \sqrt{176} - \sqrt{54}$

8)  $9\sqrt{28} - 3\sqrt{24} + 8\sqrt{112} - 4\sqrt{54}$

4)  $-2\sqrt{48} - 9\sqrt{48}$

9)  $-\sqrt{5} + \sqrt{45}$

5)  $\sqrt{5} - \sqrt{80}$

10)  $7\sqrt{2} + 6\sqrt{2} - 3\sqrt{8}$



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## Adding and Subtracting Radical Expressions

**Simplify the Radical Expressions.**

$$\begin{array}{l} 1) \quad -\sqrt{2} - \sqrt{2} \\ \quad -2\sqrt{2} \end{array}$$

$$\begin{array}{l} 6) \quad 7\sqrt{44} - 9\sqrt{44} \\ \quad -4\sqrt{11} \end{array}$$

$$\begin{array}{l} 2) \quad -5\sqrt{6} - 9\sqrt{6} - 6\sqrt{6} \\ \quad -20\sqrt{6} \end{array}$$

$$\begin{array}{l} 7) \quad -\sqrt{176} - \sqrt{32} - \sqrt{99} \\ \quad -7\sqrt{11} - 4\sqrt{2} \end{array}$$

$$\begin{array}{l} 3) \quad \sqrt{96} + \sqrt{176} - \sqrt{54} \\ \quad \sqrt{6} + 4\sqrt{11} \end{array}$$

$$\begin{array}{l} 8) \quad 9\sqrt{28} - 3\sqrt{24} + 8\sqrt{112} - 4\sqrt{54} \\ \quad 50\sqrt{7} - 18\sqrt{6} \end{array}$$

$$\begin{array}{l} 4) \quad -2\sqrt{48} - 9\sqrt{48} \\ \quad -44\sqrt{3} \end{array}$$

$$\begin{array}{l} 9) \quad -\sqrt{5} + \sqrt{45} \\ \quad 2\sqrt{5} \end{array}$$

$$\begin{array}{l} 5) \quad \sqrt{5} - \sqrt{80} \\ \quad -3\sqrt{5} \end{array}$$

$$\begin{array}{l} 10) \quad 7\sqrt{2} + 6\sqrt{2} - 3\sqrt{8} \\ \quad 7\sqrt{2} \end{array}$$

